

2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 28

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Medium	Remarks
28	7836	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 12 excursions beyond the criterion out of 44 samples at station BBC2 between 1/91 and 12/93.	GB90VP	16.32	02N	01E	38	Dissolved oxygen	Water	
28	7839	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 3 excursions beyond the criterion out of 32 samples (9%) at station BBC3 between 1/91 and 12/93.	GB90VP	18.38	02N	02E	60	Dissolved oxygen	Water	
28	7840	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 6 excursions beyond the criterion out of 36 samples (16%) at station BBC4 between 1/91 and 12/93.	GB90VP	20.389	02N	02E	67	Dissolved oxygen	Water	
28	7841	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 14 excursions beyond the criterion out of 45 samples (31%) at station BBC5 between 1/91 and 12/93.	GB90VP	22.261	02N	02E	56	Dissolved oxygen	Water	
28	7844	5	Y	BURNT BRIDGE CREEK Clark County data (submitted by Carl Addy on 10/6/93) show 8 excursions beyond the criterion at 112th Ave station between 7/22/91 and 10/13/92,	GB90VP	23.563	02N	02E	69	Dissolved oxygen	Water	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)
28	7827	5	Y	BURNT BRIDGE CREEK Clark County data (submitted by Carl Addy on 10/6/93) show 15 excursions beyond the criterion at the 18th Street station between 2/4/91 and 11/3/92	GB90VP	18.38	02N	02E	60	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
28	7828	5	Y	BURNT BRIDGE CREEK Clark County data (submitted by Carl Addy on 10/6/93) show 8 excursions beyond the criterion at Burton Road station between 5/15/91 and 9/15/92	GB90VP	20.222	02N	02E	66	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.

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28	7829	5	Y	BURNT BRIDGE CREEK Hallock (2004), Dept. of Ecology ambient station 28C070 shows 2 of 3 samples (66.7%) in year 2003 exceeded the percentile criterion. Samadpour et. al., 1999, (submitted by Rosemere Neighborhood Association, 2/12/2004), station BBC1 shows the geometric mean of 441.3 exceeded the criterion and 3 of 5 samples (60%) collected in 1996 exceeded the percentile criterion; the geometric mean of 345.8 exceeded the criterion and 7 of 9 samples (78%) exceeded the percentile criterion in 1997. Clark County data (submitted by Carl Addy on 10/6/93) show 22 excursions beyond the criterion at NW 2nd Ave. station between 1/7/91 and 12/7/92,	GB90VP	9.638	02N	01E	15	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
28	7830	5	Y	BURNT BRIDGE CREEK Clark County data (submitted by Carl Addy on 10/6/93) show10 excursions beyond the criterion at 112th Ave station between 7/9/91 and 9/15/92,	GB90VP	23.563	02N	02E	69	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
28	7832	5	Y	BURNT BRIDGE CREEK Samadpour et. al., 1999, (submitted by Rosemere Neighborhood Association, 2/12/2004), station BBC2 shows the geometric mean of 257.2 exceeded the criterion and 3 of 5 samples (60%) collected in 1996 exceeded the percentile criterion; the geometric mean of 161.6 exceeded the criterion and 2 of 9 samples (22%) exceeded the percentile criterion in 1997. Gaddis, 1994. , 17 excursions beyond the criterion at out of 36 samples at station BBC5 between 1/91 and 12/93.;	GB90VP	22.261	02N	02E	56	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
28	7856	5	Y	BURNT BRIDGE CREEK Samadpour et. al., 1999, (submitted by Rosemere Neighborhood Association, 2/12/2004), station BBC2 shows the geometric mean of 244.7 exceeded the criterion and 2 of 5 samples (40%) collected in 1996 exceeded the percentile criterion; 2 of 2 samples (100%) collected in 1997 exceeded the percentile criterion; the geometric mean of 244.2 exceeded the criterion and 5 of 9 samples (55%) exceeded the percentile criterion in 1997. Gaddis, 1994. , 23 excursions beyond the criterion at out of 36 samples at station BBC2 between 1/91 and 12/93.;	GB90VP	16.32	02N	01E	38	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
28	7858	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 15 excursions beyond the criterion at out of 32 samples at station BBC4 between 1/91 and 12/93.;	GB90VP	20.389	02N	02E	67	Fecal Coliform	Water	Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.
28	7837	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 6 excursions beyond the criterion out of 41 samples (15%) at station BBC1 in 1991,1992,and 1993.	GB90VP	9.638	02N	01E	15	Temperature	Water	
28	7847	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 12 excursions beyond the criterion out of 45 samples (27%) at station BBC2 in 1991, 1992, and 1993.;	GB90VP	16.32	02N	01E	38	Temperature	Water	

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28	7848	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 4 excursions beyond the criterion out of 32 samples (13%) at station BBC3 in 1991, 1992 and 1993.	GB90VP	18.38	02N	02E	60	Temperature		Water
	7855	5	Y	BURNT BRIDGE CREEK Gaddis, 1994. , 6 excursions beyond the criterion out of 46 samples (13%) at station BBC5 in 1991, 1992, and 1993.	GB90VP	22.261	02N	02E	56	Temperature		Water
	7862	5	Y	CHINA DITCH Clark County data (submitted by Carl Addy on 10/6/93) show 17 excursions beyond the criterion at the NE 174th Ave station between 7/24/91 and 11/3/92.; Clark County data (submitted by Carl Addy on 10/6/93) show 17 excursions beyond the criterion at the NE Ward Road station between 7/24/91 and 11/3/92.; Clark County unpublished data from a diel study at station CHD010 (China Ditch at NE Ward Road) measured excursions beyond the criterion on 30 August 2001. Lafer, 1994, 17 excursions beyond the criterion out of 21 samples (81%) at station A3 (at Ward Road - 172nd Ave Bridge) during 1991 and 1992.	QY97TT	0	02N	03E	06	Dissolved oxygen	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)	Water
	7865	5	Y	CHINA DITCH Lafer, 1994, 9 excursions beyond the criterion out of 21 samples (43%) at station A3 (at Ward Road - 172nd Ave Bridge) during 1991 and 1992. Clark County unpublished data from a diel study at station CHD010 (China Ditch at NE Ward Road) measured excursions beyond the criterion on 30 August 2001.	QY97TT	0	02N	03E	06	Temperature		Water
	7868	5	Y	CHINA LATERAL Lafer, 1994, 3 excursions beyond the criterion out of 7 samples (38%) at station D2 (China Lateral at 172nd Ave) between 1991 and 1992.	RP10YQ	3.868	03N	02E	36	Dissolved oxygen	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)	Water
28	7869	5	Y	CHINA LATERAL Lafer, 1994, 2 excursions beyond the criterion out of 7 samples (25%) at station D2 (China Lateral at 172nd Ave) during 1991 and 1992.	RP10YQ	3.868	03N	02E	36	Temperature		Water

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information				Parameter	Medium	Remarks
28	6705	5	Y	COLUMBIA RIVER Hallock and Ehinger, 1993., excursions beyond criteria at Sauvie Island, from 9/92 to 12/92.;	NN57SG	45122I7A8	45.805	122.785	Fecal Coliform	Water	Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.
28	6293	5	N	COLUMBIA RIVER U.S. Army Corp of Engineers (2001) station WRNO (Warrendale) shows 47 days exceeding the numeric criterion (20 deg. C) in 2000.	NN57SG	45122F0J6	45.595	122.065	Temperature	Water	Same location as U.S. Army Corp of Engineers station WAR. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
28	6294	5	N	COLUMBIA RIVER U.S. Army Corp of Engineers (2001) station CWMW (Camas/Washougal) shows 59 days exceeding the numeric criterion (20 deg. C) in 2000.	NN57SG	45122F3F1	45.555	122.315	Temperature	Water	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
28	6295	5	Y	COLUMBIA RIVER U.S. Army Corp of Engineers (2001) station SKAW (Skamania) shows 45 days exceeding the numeric criterion (20 deg. C) in 2000. Tanner, et al. 1996. , 48 excursions beyond the numeric criterion (20 deg.)near Skamania, WA in 1996.	NN57SG	45122G0A5	45.605	122.055	Temperature	Water	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
28	7876	5	Y	COLUMBIA RIVER Tanner, et al. 1996. , 48 excursions beyond the numeric criterion (20 deg. C) out of 170 samples (37%) near Dodson, OR in 1996.	NN57SG	45122G0B3	45.615	122.035	Temperature	Water	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.
28	7877	5	Y	COLUMBIA RIVER Tanner, et al. 1996. , 62 excursions beyond the numeric criterion (20 deg. C) out of 180 samples (34%) near Washougal, WA in 1996.	NN57SG	45122F3H5	45.575	122.355	Temperature	Water	EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium
Basis									Remarks	
28	21539	5	N	COLUMBIA RIVER	NN57SG	45122F3H6	45.575	122.365	Temperature	Water
Continuous monitoring data from a study by Parametrix (2002 and 2004) indicates exceedances of the numeric temperature criteria of 20°C at RM 122.0 in 2002 and 2003.									Northwest Pulp and Paper Association presented rationale	a two year study performed by Parametrix (12/16/02 and 3/15/04) that temperatures higher than the 20°C numeric criteria are a natural condition and the segment meets the state water quality standard for temperature. Ecology required pulp mills on the Columbia and White/Stuck River to perform a two-year ambient water temperature monitoring study in accordance with Ecologys WQP 1-11 and quality assurance requirements. Ecology reviewed this study and
										associated listing in 2003 for natural conditions, but has not yet made a determination of natural conditions for these rivers. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway that may address this issue. The Parametrix study measured temperature data upstream and downstream of pulp mills along the rivers and found the mills did not have a measurable effect on temperatures (the associated discharges do not exceed 0.3 degrees). This study will be valuable for verifying that pulp mills do not contribute a significant increase in temperature when load allocations are being considered in the TMDL.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information				Parameter	Medium	
Basis									Remarks		
28	21540	5	N	COLUMBIA RIVER	NN57SG	45122G6A0	45.605	122.605	Temperature	Water	
Continuous monitoring data from a study by Parametrix (2002 and 2004) indicates exceedances of the numeric temperature criteria of 20°C at RM 110.3 in 2002 and 2003.									Northwest Pulp and Paper Association presented rationale a two year study performed by Parametrix (12/16/02 and 3/15/04) that temperatures higher than the 20°C numeric criteria are a natural condition and the segment meets the state water quality standard for temperature. Ecology required pulp mills on the Columbia and White/Stuck River to perform a two-year ambient water temperature monitoring study in accordance with Ecologys WQP 1-11 and quality assurance requirements. Ecology reviewed this study and associated listing in 2003 for natural conditions, but has not yet made a determination of natural conditions for these rivers. EPA has the lead in a Temperature TMDL for the Columbia and Snake Rivers that is underway that may address this issue. The Parametrix study measured temperature data upstream and downstream of pulp mills along the rivers and found the mills did not have a measurable effect on temperatures (the associated discharges do not exceed 0.3 degrees). This study will be valuable for verifying that pulp mills do not contribute a significant increase in temperature when load allocations are being considered in the TMDL.		
28	22053	5	N	CURTIN CREEK	XU25TT	0	03N	02E	20	Dissolved oxygen	Water
Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) show excursions beyond the chronic criterion from measurements collected 1998-2002.											
Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) show excursions beyond the criterion from measurements collected in 2002.											
28	22061	5	N	CURTIN CREEK	XU25TT	0	03N	02E	20	pH	Water
Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) show 16 excursions beyond the chronic criterion from 51 measurements collected 1998-2002.									Low pH		
Clark County unpublished data from station CUR020 (Curtin Cr dnstrm of NE 139th Street) show no excursions beyond the criterion from measurements collected in 2002.											

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium	Remarks
28	7894	5	Y	DWYER CREEK	YQ90IX	7.672	02N	03E	50	Dissolved oxygen	Water	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)
28	7897	5	Y	FIFTH PLAIN CREEK	QO04UK	0.162	02N	03E	07	Dissolved oxygen	Water	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)
28	7901	5	Y	FIFTH PLAIN CREEK	QO04UK	4.833	03N	03E	32	Dissolved oxygen	Water	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)
28	7908	5	Y	FIFTH PLAIN CREEK	QO04UK	3.413	02N	03E	06	Dissolved oxygen	Water	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Remarks	Medium
28	7900	5	Y	FIFTH PLAIN CREEK	QO04UK	4.833	03N	03E	32	Temperature		Water
	Lafer, 1994, 7 excursions beyond the criterion out of 19 samples (37%) at station C3 (at Davis Road Bridge) during 1991 and 1992.											
	Clark County unpublished data from a diel study at station FPL050 (Fifth Plain Cr at NE Davis Road) measured excursions beyond the criterion on 30 August 2001.											
28	7907	5	Y	FIFTH PLAIN CREEK	QO04UK	3.413	02N	03E	06	Temperature		Water
Lafer, 1994, 9 excursions beyond the criterion out of 19 samples (47%) at station A4 (at Ward Road - 172nd Ave Bridge) during 1991 and 1992.												
28	7912	5	Y	LACAMAS CREEK	YQ90IX	8.596	02N	03E	51	Dissolved oxygen		Water
	Clark County data (submitted by Carl Addy on 10/6/93) show 6 excursions beyond the criterion at the NE Goodwin Road station between 7/24/91 and 8/5/92.											
	Lafer, 1994, 4 excursions beyond the criterion out of 26 samples (15%) at station A1 (at Goodwin Road Bridge) during 1991 and 1992.											
to											During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues	
											be impaired. (Braley, ECY/WQP, 2003)	
28	7915	5	Y	LACAMAS CREEK	YQ90IX	2.286	01N	03E	47	Dissolved oxygen		Water
	Lafer, 1994. 12 excursions beyond the criterion out of 20 samples (60%) at station B1 (outlet on Lacamas Creek) during 1991 and 1992.											
	TRS was 01N-03E-44 on 1998 list. -kk											
to											During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues	
											be impaired. (Braley, ECY/WQP, 2003).	
28	7921	5	Y	LACAMAS CREEK	YQ90IX	15.679	02N	03E	07	Dissolved oxygen		Water
	Lafer, 1994, 5 excursions beyond the criterion out of 21 samples (23%) at station A5 (at Fourth Plain Road Bridge) during 1991 and 1992.											
	During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues											
to											be impaired. (Braley, ECY/WQP, 2003)	

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				Basis						Remarks		
28	7924	5	Y	LACAMAS CREEK	YQ90IX	20.698	02N	03E	10	Dissolved oxygen	Water	
				Lafer, 1994, 8 excursions beyond the criterion out of 20 samples (40%) at station C1 (just upstream of Matney Creek) during 1991 and 1992.							During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues to be impaired. (Braley, ECY/WQP, 2003)	
28	7913	5	Y	LACAMAS CREEK	YQ90IX	8.596	02N	03E	51	Fecal Coliform	Water	
				Clark County data (submitted by Carl Addy on 10/6/93) show 2 excursions beyond the criterion at the NE Goodwin Road station on 4/5/92 and 7/15/92.							Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.	
				Lafer, 1994, 2 excursions beyond the upper criterion at station A1(at Goodwin Road Bridge) on 4/5/92 and 7/15/92 out of 3 samples.								
28	7916	5	Y	LACAMAS CREEK	YQ90IX	2.286	01N	03E	47	pH	Water	
				Lafer, 1994. 7 excursions beyond the criterion out of 20 samples (35%) at station B1 (outlet on Lacamas Creek) between 1991 and 1992.							TRS was 01N-03E-44 on 1998 list. -kk	
											Both low pH and high pH	
28	7914	5	Y	LACAMAS CREEK	YQ90IX	2.286	01N	03E	47	Temperature	Water	
				Lafer, 1994. 13 excursions beyond the criterion out of 20 samples (65%) at station B1 (outlet on Lacamas Creek) during 1991 and 1992.							TRS was 01N-03E-44 on 1998 list. -kk	
28	7917	5	Y	LACAMAS CREEK	YQ90IX	8.596	02N	03E	51	Temperature	Water	
				Lafer, 1994, 7 excursions beyond the criterion out of 26 samples (27%) at station A1 (at Goodwin Road Bridge) during 1991 and 1992.								
28	7920	5	Y	LACAMAS CREEK	YQ90IX	15.679	02N	03E	07	Temperature	Water	
				Lafer, 1994, 7 excursions beyond the criterion out of 21 samples (33%) at station A5 (at Fourth Plain Road Bridge) during 1991 and 1992.								
28	7923	5	Y	LACAMAS CREEK	YQ90IX	20.698	02N	03E	10	Temperature	Water	
				Lafer, 1994, 7 excursions beyond the criterion out of 20 samples (35%) at station C1 (just upstream of Matney Creek) during 1991 and 1992.								
28	43465	5	N	LACAMAS LAKE	621COD	02N	03E	34		Total PCBs	Tissue	
				Seiders, 2004 shows fillet samples of largemouth bass collected in 2003 exceeded the National Toxics Rule criterion for Total PCBs								

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Basis										Remarks	
28	6346	5	N	LACAMAS LAKE	621COD	02N	03E	34	Total Phosphorus	Water	
Completed Phase I State Clean Lakes Restoration Project in 1986 - Problems Encountered: Blue-green algae, low dissolved oxygen, low transparency, high turbidity, tributary nutrient inputs, aquatic macrophytes. Intergovernmental Resource Center, 1988.Beak Consultants and Scientific Resources, 1985. Clark county unpublished data show the summer mean epilimnetic total phosphorus concentrations of 28 ug/L in 1999, 34 ug/L in 2000, 26 ug/L in 2001 and 24 ug/L in 2002.										Phase II State Clean Lakes Restoration Project: Control measures underway based on the Phase I study -watershed nutrient management (dairy waste BMPs, stream bank fencing, septic system management, ordinance development), public education.	
28	40870	5	Y	LAKE RIVER	IQ64OU	4.372	04N	01W	38	Fecal Coliform	Water
4 excursions beyond the criterion out of 12 samples (33%) at Ecology ambient monitoring station 28F070 (RM3.2) between 9/91 and 9/96										Mistakenly listed entered into 1996 list decision matrix based on station 28F070. This station is on the segment WA-28-1010 and does not represent upstream conditions on	
										WA-28-1030. JB 7-25-03: REASSESS, OLD DATA	
28	40869	5	Y	LAKE RIVER	IQ64OU	4.372	04N	01W	38	Temperature	Water
4 excursions beyond the criterion out of 12 samples (33%) at Ecology ambient monitoring station 28F070 between 9/91 and 9/96										Mistakenly listed entered into 1996 list decision matrix based on station 28F070. This station is on the segment WA-28-1010 and does not represent upstream conditions on	
										WA-28-1030. JB 7-25-03: REASSES, OLD DATA	
28	7929	5	Y	MATNEY CREEK	JY73PR	0	02N	03E	09	Dissolved oxygen	Water
Clark County data (submitted by Carl Addy on 10/6/93) show 8 excursions beyond the criterion at the NE 68th Street station between 7/24/91 and 9/3/92.										During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments. Based on a review of monitoring studies for	
Clark County unpublished data from station MAT010 (Matney Cr upstrm of NE 68th Street) show no excursions beyond the criterion from measurements collected in 2001-2002.											
Lafer, 1994. 7 excursions beyond the criterion out of 19 samples (37%) at station C2 (at 68th St. Bridge) during 1991 and 1992.										statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues	
										be impaired. (Braley, ECY/WQP, 2003)	
28	22016	5	N	MATNEY CREEK	JY73PR	0	02N	03E	09	Fecal Coliform	Water
Clark County unpublished data from station MAT010 (Matney Cr upstrm of NE 68th Street) show a geometric mean of 127 cfu/100mL from 6 samples collected in 2002.											
Lafer, 1994, 1 excursion beyond the upper criterion at station C2 (at 68th St. Bridge) on 4/5/92 out of 2 samples.											

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Remarks	Medium
28	7930	5	Y	MATNEY CREEK Lafer, 1994, 5 excursions beyond the criterion out of 19 samples (26%) at station C2 (at 68th St. Bridge) during 1991 and 1992. Clark County unpublished data from station MAT010 (Matney Cr upstrm of NE 68th Street) show excursions beyond the criterion from measurements collected in 2002.	JY73PR	0	02N	03E	09	Temperature		Water
28	7936	5	Y	ROUND LAKE Lafer, 1994, 5 excursions beyond the criterion out of 11 samples (45%) at station B2 (outlet on Mill Ditch at Garfield Road) during 1991 and 1992.	636ALD	01N	03E	46		Dissolved oxygen	Redesignated as Round Lake instead of Mill Creek. 07/19/04 kk During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments . Based on a review of monitoring studies for DO statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues be impaired. (Braley, ECY/WQP, 2003)	Water
28	7935	5	Y	ROUND LAKE Lafer, 1994, 7 excursions beyond the criterion out of 11 samples (67%) at station B2 (outlet on Mill Ditch at Garfield Road) between 1991 and 1992.	636ALD	01N	03E	46		pH	Low pH. Redesignated from Mill Ditch to Round Lake. 07/19/04 -kk	Water
28	22055	5	N	SALMON CREEK Clark County unpublished data from station SMN010 (Salmon Cr at NW 36th Avenue) show excursions beyond the chronic criterion from measurements collected 1998-2002.	FP99QE	2.058	03N	01E	20	Dissolved oxygen		Water
28	22063	5	N	SALMON CREEK Clark County unpublished data from station SMN010 (Salmon Cr at NW 36th Avenue) show 13 excursions beyond the chronic criterion from 51 measurements collected 1998-2002.	FP99QE	2.058	03N	01E	20	pH	Low pH	Water
28	22065	5	N	SALMON CREEK Clark County unpublished data from station SMN050 (Salmon Cr at Caples Road) show 11 excursions beyond the chronic criterion from 51 measurements collected 1998-2002.	FP99QE	21.063	03N	02E	15	pH	Low pH	Water
28	22066	5	N	SALMON CREEK Clark County unpublished data from station SMN080 (Salmon Cr at NE 199th Street) show 17 excursions beyond the chronic criterion from 51 measurements collected 1998-2002.	FP99QE	34.326	03N	03E	03	pH	Low pH	Water

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium	Remarks
				Basis								
28	22047	5	Y	SALMON CREEK	FP99QE	2.058	03N	01E	20	Temperature	Water	
	Clark County unpublished data from station SMN010 (Salmon Cr at NW 36th Avenue) show excursions beyond the chronic criterion from measurements collected 1998, 1999, 2000 and 2002.											
	7946	5	Y	SHANGHAI CREEK	IA24XE	1.176	02N	03E	05	Dissolved oxygen	Water	
	Lafer, 1994, 8 excursions beyond the criterion out of 17 samples (47%) at station C4 (at 212 Ave Bridge) during 1991 and 1992.											
	2003)											
28	7947	5	Y	SHANGHAI CREEK	IA24XE	1.176	02N	03E	05	pH	Water	
Lafer, 1994, 3 excursions beyond the criterion out of 17 samples (18%) at station C4 (at 212 Ave Bridge) between 1991 and 1992.												
28	7945	5	Y	SHANGHAI CREEK	IA24XE	1.176	02N	03E	05	Temperature	Water	
Lafer, 1994, 3 excursions beyond the criterion out of 17 samples (18%) at station C4 (at 212 Ave Bridge) during 1991 and 1992.												
28	6324	5	N	VANCOUVER LAKE	073FDJ	03N	01E	32		Fecal Coliform	Water	
	Completed Phase I Federal Clean Lakes Restoration Project in 1978- Problems Encountered: Blue-green algae, low transparency, low dissolved oxygen, aquatic											
	macrophytes, sediment phosphorus recycling, fecal coliform bacteria.											
28	7949	5	N	VANCOUVER LAKE	073FDJ	45122G7H1	45.675	122.715	Fecal Coliform	Water		
Project	Completed Phase I Federal Clean Lakes Restoration Project in 1978- Problems Encountered: Blue-green algae, low transparency, low dissolved oxygen, aquatic											
	macrophytes, sediment phosphorus recycling, fecal coliform bacteria.											
	in 1986:Dames and Moore, 1980.Control measures implemented based on the Phase I Study - sediment removal/dredging, dilution/flushing.											
Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.The basis cited for the assessment applies to the entire lake. The center grid segment of the lake was selected to represent this information.												

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information				Parameter	Remarks	Medium
28	42172	5	N	VANCOUVER LAKE Seiders, 2004. shows the National Toxics Rule criterion was exceeded in Largemouth bass fillet samples collected 10/3/2002. Davis et al, 1995.(Ecology pub # 95-356) shows criterion was exceeded in Largemouth bass fillet samples collected in 1993.	073FDJ	45122G7J1	45.695	122.715	Total PCBs		Tissue
28	6375	5	N	VANCOUVER LAKE Completed Phase I Federal Clean Lakes Restoration Project in 1978- Problems Encountered: Blue-green algae, low transparency, low dissolved oxygen, aquatic macrophytes, sediment phosphorus recycling, fecal coliform bacteria.	073FDJ	03N 01E 51			Total Phosphorus	Completed Phase II Federal Clean Lakes restoration Project in 1986:Dames and Moore, 1980.Control measures implemented based on the Phase I Study - sediment removal/dredging, dilution/flushing.	Water
28	16774	5	N	WASHOUGAL RIVER Hallock (2001) Dept. of Ecology Ambient Monitoring Station 28B110 (Washougal R. below Canyon Creek) shows a geometric mean of 6 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 2 samples collected during 1994.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 28B110 (Washougal R. below Canyon Creek) shows a geometric mean of 33 does not exceed the criterion and that 50% of the samples exceeds the percentile criterion from 4 samples collected during 1997.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 28B110 (Washougal R. below Canyon Creek) shows a geometric mean of 15 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 6 samples collected during 1999.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 28B110 (Washougal R. below Canyon Creek) shows a geometric mean of 18 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 9 samples collected during 1998.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 28B110 (Washougal R. below Canyon Creek) shows a geometric mean of 9 does not exceed the criterion and that 0% of the samples does not exceed the percentile criterion from 11 samples collected during 2000.; Hallock (2001) Dept. of Ecology Ambient Monitoring Station 28B110 (Washougal R. below Canyon Creek) shows a geometric mean of 24 does not exceed the criterion and that 22% of the samples exceeds the percentile criterion from 9 samples collected during 1995.	ME26VJ	20.632	02N 05E 31		Fecal Coliform		Water
28	22067	5	N	WEAVER CREEK Clark County unpublished data from station WDN010 (Weaver Creek at Caples Rd.) show 14 excursions beyond the chronic criterion from 51 measurements collected 1998-2002.	HO68MC	0	03N 02E 15		pH	Low pH	Water
28	22018	5	N	WHIPPLE CREEK Clark County unpublished data from station WPL050 (Whipple Cr upstrm of NW 179th Street) show a geometric mean of 634 cfu/100mL from 6 samples collected in 2002.	ER25WD	3.931	03N 01E 17		Fecal Coliform		Water